

## CLIMATOLOGICAL DATA FOR OCTOBER, 1912.

## DISTRICT No. 3, OHIO VALLEY AND TENNESSEE.

Prof. FERDINAND J. WALZ, District Editor.

## GENERAL SUMMARY.

Weather conditions during October, 1912, may be characterized as practically ideal for an autumn month in nearly all parts of the district. The most prominent features of the month were the unusually favorable temperatures over the entire district, the light precipitation over the central portion during the first half of the month, and the lateness of killing frosts over the agricultural sections. These conditions combined to aid in maturing crops, which were later than usual on account of the delay in planting due to the cold, wet spring, and to furnish excellent weather for fall seeding and other outdoor work. Killing frosts occurred so late in most localities, 14th to 16th in Ohio and 24th and 25th over the other important farming sections, that very little damage resulted. No general or damaging storms occurred, the rainfall being nearly always moderate in amount and usually beneficial for fall plowing and in replenishing the water supply.

High pressure areas largely dominated conditions during the month, the only noteworthy disturbances being those that passed north of the district on the 19th and 23d, and one that was centered over the district at the close of the month.

The following table summarizes the chief features of meteorological interest for the several sections of the district.

Portions of States included in the Ohio River Basin.	Temperature.				Precipitation.							
	Average.	Departure.	Highest.	Lowest.	Average.	Departure.	Greatest monthly.	Least monthly.	Greater in 24 hours.	Average number of days.	Average snowfall.	
New York.....	50.4	+0.9	82	22	2.96	-0.23	3.06	2.91	1.30	10	0	
Pennsylvania.....	53.5	+1.6	90	23	2.80	+0.26	4.70	1.48	1.83	7	T.	
Maryland.....	50.6	+1.7	81	18	1.51	-1.07	1.67	1.41	1.20	5	0	
West Virginia.....	55.6	+1.0	93	22	1.44	-1.20	3.10	0.60	2.00	4	T.	
Ohio.....	55.2	+1.9	93	23	2.24	+0.09	4.27	0.50	2.40	5.	0	
Indiana.....	56.2	+1.2	90	21	2.01	-0.70	3.17	0.79	1.98	6	0	
Illinois.....	57.7	+1.4	90	23	1.97	-0.57	3.63	0.54	1.84	6	0	
Kentucky.....	59.5	+2.1	92	25	1.41	-0.68	4.40	0.32	2.41	4	0	
Tennessee.....	60.8	+2.1	92	25	1.60	-0.81	3.78	0.65	2.01	4	0	
Alabama.....	62.3	+0.4	90	29	1.87	-0.73	2.24	1.59	1.67	4	0	
Georgia.....	60.6	+3.5	83	33	2.97	-0.18	—	—	2.60	3	0	
North Carolina.....	56.9	+2.7	87	23	1.94	-1.15	3.28	1.08	1.72	5	0	
Virginia.....	54.5	+1.7	82	27	1.53	-1.13	2.19	0.80	1.00	5	0	

## TEMPERATURE.

The unseasonably cold weather which largely prevailed during the last decade of September continued during the first two days of October, when mean temperatures were from 6° to 13° below normal, minimum temperatures registering in the thirties in practically all parts of the district except the extreme southern portion and in the

forties in all sections. Frost occurred generally throughout the district except in the northern portions of Georgia and Alabama, being heavy in many of the more elevated localities and killing at a few stations.

A decided change to warmer set in on the 4th and continued up to and including the 12th, except that on the 8th temperatures were below normal over sections north of the Ohio River. During the period 9th-11th summer-like conditions obtained, mean temperatures being 10° to 16° above the seasonal normal and maximum temperatures registering above 80°, while at quite a few places they were 90° and over. The maximum temperature for the district, 93°, was registered at Doane, W. Va., on the 10th and at Demos, Ohio, on the 11th. During the periods 13th-22d and 27th-31st ideal autumnal temperature prevailed, being unusually warm, however, on the 28th and 29th. The nights were especially cool from the 13th to 17th, the daily range being great and the minimum temperatures for the month occurring during that time at many stations in the eastern portion of the district. Killing frosts occurred generally during this period throughout those sections.

The coldest period of the month over most of the district was the 23d-25th, when mean temperatures were 4° to 9° below normal and minimum temperatures registered from 23° to 33° in the various sections. During this period heavy frost was general and destructive to vegetation, practically closing the growing season in all the district as far south as Kentucky. In the mountain sections of the district the coldest period was the 26th-28th, the lowest temperature reported, 18°, being registered at Deer Park, Md., on the 27th. For the month as a whole the temperature averaged from 1° to 3° above normal and was decidedly favorable, frosts being somewhat delayed and occasioning little damage when they occurred.

## PRECIPITATION.

The precipitation for the month averaged considerably below normal in practically all parts of the district, except Ohio and Western Pennsylvania, where it was slightly in excess. Over most of the district the amount ranged between 1 and 3 inches. The distribution of precipitation was very irregular. A deficiency was pronounced over the eastern half of Kentucky, in central Tennessee, and the western portion of West Virginia, and also over limited areas in eastern Illinois and southern Indiana. In these sections the amounts received ranged from 0.3 to 1 inch, the least for the district occurring in eastern and central Kentucky. However, this deficiency produced no unfavorable results in the latter State, as the accumulated amounts for the growing season were from 2.5 to 12 inches above normal, the largest excess appearing across the entire southern part of the State. A large proportion of this surplus fell in April and May,

though it was well distributed through June and July, except over a limited area in the western part of the State.

In the northeastern portion of the district and at scattered stations near the western and southern borders the monthly amounts ranged between 3 and 5 inches. Over that portion of the district north of the Ohio River there were three periods of rainfall, viz, 8th-12th, 17th-19th, and 22d-25th. Rains occurred generally over the southern portions of the district in the periods 12th-15th, 18th-19th, and 22d-23d, also in Illinois, Indiana, and Ohio on the 29th-31st. A trace of snow was reported from a few stations in the northeastern portion of the district on the 23d and 24th. The rains of the latter half

of the month in western Pennsylvania were sufficient to produce good stages of water in the streams, but in the other portions of the district the rainfall was only adequate to furnish the normal water supply.

#### MISCELLANEOUS.

A few scattered thunderstorms occurred over the district about the 10th and 22d. Near Danville, Vermilion County, Ill., Grover Moulton, a farmer's son, was killed and his father stunned by lightning on the 10th. During the same storm 3 horses were struck by lightning and one killed near Potomac, in the same county.

TABLE 1.—Climatological data for October, 1912. District No. 3, Ohio Valley.

Stations.	Counties.	Elevation, feet.	Length of record, years	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.							
<i>New York.</i>																					
Allegany.	Cattaraugus.	1,441	6	51.2	-0.9	82	6	23	17	43	3.06	-0.23	1.30	0	11	9	10	12	nw.	Charles E. Whitney.	
Bolivar.	Allegany.	1,800	18	49.6	+0.9	79	6	22	27	42	2.91	-0.23	0.81	0	9	11	13	7	nw.	Charles F. Hoffman.	
Olean.	Cattaraugus.	1,402	4								2.92		0.97	0	9	9			w.	John W. Alles.	
<i>Pennsylvania.</i>																					
Aleppo.	Green.	1,135	11	54.1	+0.8	85	11	23	27	42	1.48	-0.93	0.92	0	5	22	3	6	sw.	J. S. Hinerman.	
Baldwin.	Butler.	1,404	6	50.6		79	11	28	27	41	3.56		0.86	0	6	12	4	15	w.	S. H. Templeton.	
Beaver Dam.	Beaver.	674	18								2.11	-0.01	1.12	0	6	2	4	25	sw.	U. S. Engineer.	
Brookville.	Jefferson.	1,173	21								3.80	+1.00	0.90	0	9				w.	H. C. Bartholomew.	
Clarion.	Clairton.	1,078	27								2.95	-0.06	0.85	0	7	10	0	21	w.	J. A. Miller.	
Claysville.	Washington.	1,127	8	56.3		89	11	25	27	46	1.52		0.80	0	6	18	10*	3	w.	E. T. Buchanan.	
Confluence.	Somerset.	1,352	28								1.48	-1.26	0.87	0	5	18	2	11	w.	Grant Pyle.	
Franklin.	Venango.	955	38	53.4	+1.5	81	12	30	17	39	3.85	+0.95	0.92	0	9	16	4	11	n.	F. E. Dixon.	
Freeport.	Armstrong.	772	39								2.59	+0.40	0.85	0	7	5	0	26	sw.	Mrs. Anna R. Burner.	
Greensboro.	Green.	768	23								1.56	-1.10	0.76	0	6	18	3	10	w.	James G. Cramer.	
Greenville.	Greene.	950	16	52.2	+2.6	83	11	26	27	45	4.70	+1.48	1.66	T	9	20	5	6	sw.	A. M. Orr.	
Indiana.	Indiana.	1,350	15	53.8	+2.5	84	6	27	27	40	4.61	+1.66	1.83	0	9	11	13	7	sw.	R. W. Wehrle.	
Johnstown.	Cambria.	1,184	24	55.2	+1.9	86	11	30	27	40	3.12	+0.53	1.04	0	10	14	12	5	sw.	E. C. Lorentz.	
Lock No. 4.	Washington.	718	26								1.65	-0.89	0.38	0	7	5	3	23	s.	R. T. McGowan.	
Lycippus.	Westmoreland.	1,420	20	54.3	-0.2	74	11†	33	16	34	3.40	+0.96	1.30	0	5				sw.	Murray Forbes.	
Mosgrove.	Armstrong.	775	1												3	0		28	w.	C. J. Moore.	
Pittsburgh.	Allegheny.	842	42	55.8	+0.9	83	11	34	27	29	2.67	+0.31	1.32	0	8	12	10	9	nw.	U. S. Weather Bureau.	
Saegerstown.	Crawford.	1,116	21	51.6	+1.4	79	11	25	16	41	4.07	+0.94	1.70	T	14	10	6	15	sw.	J. G. Apple.	
Sharon.	Mercer.	940	1	53.8		81	6†	29	16	41	3.09		1.26	0	8	21	1	9	sw.	Norman S. Powell.	
Skidmore.	Lawrence.	1,000	8	52.2		82	11	25	27	40	2.25		0.90	0	4	23	2	6	sw.	W. H. Stoner.	
Somerset.	Somerset.	2,250	56	52.4	+4.0	90	6	25	27	52	1.55	+1.25	0.85	0	4	11	16	4	nw.	W. M. Schrock.	
Uniontown.	Fayette.	999	24	56.7	+2.7	84	10	30	27	35	1.55	-1.15	0.72	0	5	17	3	11	nw.	Wm. Hunt.	
Warren.	Warren.	1,137	23	50.2	-0.2	78	12	26	26	41	3.63	+0.64	1.18	0	11	16	0	15	nw.	Anna Simpson.	
<i>Maryland.</i>																					
Deer Park.	Garrett.	2,457	18	49.6	+1.3	81	11	18	27	48	1.44	-0.83	0.70	0	5						S. P. Specht.
Grantsville.	do.	2,351	18	52.0	+2.1	81	6	24	16†	44	1.07	-0.76	1.20	0	4	6	17	10	4	w.	J. S. Miller.
Oakland.	do.	2,461	12	50.2	+1.7	80	10†	20	27	41	1.41	-1.61	0.68	0	6						R. E. Weber.
<i>West Virginia.</i>																					
Bancroft.	Putnam.	574	10	57.3	-0.2	87	5†	30	16	44	1.19	-1.55	0.74	0	4	9	4	18	ne.	R. E. Dent.	
Beckley.	Raleigh.	2,440	12	51.6	-2.4	80	13	25	31	48	0.60	-2.01	0.30	0	3	19	3	9	w.	John A. Ewart.	
Bens Run.	Pleasants.	622	10	57.2	+1.4	87	11	33	28	47	1.47	-1.47	0.85	0	4	26	2	3		J. D. Riggs.	
Bluefield.	Mercer.	2,563	17	56.3	+1.0	83	11	30	28	40	1.87	-0.93	0.65	0	4	20	2	9		Norfolk & Western.	
Buckhannon.	Upshur.	1,472	21	53.6	+0.8	83	11	24	27	39	0.96	-2.43	0.54	0	3	21	5	5		H. A. Darnall.	
Cairo.	Ritchie.	667	10	57.5	+1.2	86	10	26	17†	44	1.23	-1.95	0.52	0	5	5	18	8	w.	Van A. Zevely.	
Central Station.	Doddridge.	900	11	55.8*	+1.6	86	11	26	27	42	0.95	-2.42	0.40	0	5	11b	4b	4b		G. W. Sherwood.	
Charleston.	Kanawha.	598	24	59.9		84	10	35	28	35	0.70	-1.85	0.52	0	3	19	2	10		R. C. Howes.	
Creston.	Wirt.	612	11	55.4	+1.1	84	9†	28	27	42	1.46	-1.00	0.71	0	6	17	5	9	w.	J. M. Reed.	
Cuba.	Jackson.	544	10	56.0	+1.3	83	11	26	16†	40	1.94	-0.77	1.29	0	4	14	15	2	w.	C. T. Perry.	
Doane.	Wayne.	6	59.0			93	10	31	20	57	1.26	-0.94	0.80	0	6	20	9	2	w.	I. A. Smith.	
Elkhorn.	McDowell.	1,933	19	55.8	+0.3	81	11	30	25†	39	3.10	+0.59	1.10	0	6	17	7	7	w.	J. J. Lincoln.	
Elkins.	Randolph.	1,940	13	53.4	+2.1	83	11	27	27	44	1.20	-1.32	0.60	0	7	14	10	7	w.	U. S. Weather Bureau.	
Fairmont.	Marion.	879	18	55.7		87	11	30	26†	44	0.97	-1.58	0.38	0	5	21	4	6	w.	F. P. Hall.	
Glenville.	Gilmer.	738	22	58.6	+3.8	91	10†	30	26†	48	1.43	-1.49	0.60	0	5	23	4	4	sw.	Joe N. Craddock.	
Grafton.	Taylor.	985	18	57.1	+2.2	87	6†	30	20†	42	1.56	-1.11	0.65	0	5	23	3	5	w.	Joseph Gerken.	
Green Sulphur Springs.	Summers.	1,600	16	55.8	+1.5	84	11	26	27	44	1.65	+0.02	1.00	0	4	16	8	7	w.	Arthur George.	
Hinton.	do.	1,400	21	59.4	+3.2	89	3	33	25†	46	1.96	-0.34	0.80	0	5	8	2	21	sw.	J. B. Lavender, C. E. Ferguson.	
Holcombs.	Nicholas.	1	54.5*		85†	11	27	27	43	2.05		1.05	0	0	20	3	8			L. H. Hutchinson.	
Huntington.	Cabell.	510	17	56.8	+0.7	82	9	35	17†	35	1.56	-0.59	1.34	0	3	17	0	14	w.	Geo. T. Argabrite.	
Lewisburg.	Greenbrier.	2,200	11	54.1	+1.2	81	6†	25	27	44	1.87	-0.78	0.76	0	4	21	5	5	nw.	Dr. J. E. McDonald.	
Logan.	Logan.	665	10	57.6	-1.5	81	11	34	28	38	0.74	-1.82	0.36	0	4	21	7	3	w.	Allen Smith.	
Lost Creek.	Harrison.	1,033	15	52.2	-2.3	86	10	23	27	47	1.18	-1.27	1.00	0	2	24	1	6	w.	S. E. Bradley.	
Madison.	Boone.	704	8																	Jas. A. Morgan.	
Mannington.	Marion.	967	11	54.4	+1.0	84	11	27	17	43	1.19	-1.24	0.52	0	8	20	5	6	w.	C. J. McCarty.	
Marlinton.	Pocahontas.	2,169	12	52.4*	+1.8	80	11	24	28	44	1.53	-0.84	0.74	0	3	22*	4*	4*		Horace Atwood.	
Morgantown.	Monongalia.	1,250	36	56.2	+1.2	84	5†	29	27	44	1.10	-1.91	0.78	0	2	15	14	2	w.	M. L. Brown.	
New Cumberland.	Marshall.	640	10	57.0	+1.6	89	11	29	17	42	1.55	-1.36	0.90	0	4	25	0	6	sw.	Frank S. Evans.	
New Martinsville.	Hancock.	987	14	55.5	+1.6	84	11	27	16	45	2.40	-0.17	1.20	0	2	14	13	4	s.	Wm. Ankrum.	
Wetzel.	Wetzel.	634	18	57.6	+1.1	89	11	31	27	42	1.77	-0.70	1.15	0	4	21	7	3	s.	Miss Donna Tully.	
Fayette.	Fayette.	2,252	18	50.6*		71	9†	31	27	30*	1.92	-0.44	0.89	0	3	17*	10*	1*		U. S. Weather Bureau.	
Wood.	Wood.	638	25	57.3	+2.8	87	11	32	27	42	1.43	-1.01	0.89	0	5	21	5	5		J. W. Swisher.	
Parsons.	Tucker.	1,662	12	53.0	+0.5	83	11	26	28	43	1.29	-1.44	0.35	0	8						

TABLE 1.—Climatological data for October, 1912. District No. 3—Continued.

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Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmelting.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Indiana—Continued.</i>																				
Marion.	Grant.	814	26	54.5	+ 1.3	83	6	28	24	38	2.02	- 0.07	0.80	0	5	18	7	6	s.	James F. Hood.
Mauzy.	Rush.	980	32	55.0	+ 2.9	84	6†	25	24	39	1.53	- 1.34	0.60	0	7	16	10	5	sw.	Elwood Kirkwood.
Monticello.	White.	674	2									2.33	0.78	0	6	17	10	4	w.	J. E. Loughry.
Moore's Hill.	Dearborn.	980	11	57.4	+ 2.0	84	9†	31	24	34	2.10	- 1.16	0.87	0	5	20	0	11	sw.	W. S. Bigney.
Mount Vernon.	Posey.	410	26	57.7	+ 0.5	87	6	34	24†	36	1.39	- 1.68	0.56	0	5	18	8	5	s.	Guy B. Green.
Nashville.	Brown.			54.6		83	9	25	25	40	1.98		0.74	0	3	11	8	12	w.	W. C. Goble.
Paoli.	Orange.	611	15	59.4	+ 2.3	86	6†	26	24	41	1.87	- 1.56	0.87	0	5	15	13	3	sw.	James A. Gillum.
Princeton.	Gibson.	481	30	58.1	+ 2.2	87	6†	30	24†	39	1.67	- 0.78	0.81	0	3	24	2	5	se.	Albert Mills.
Richmond.	Wayne.	972	27	53.8	+ 0.8	83	11	27	25	38	2.23	- 0.54	0.86	0	6	12	14	5	sw.	Walter Vossler.
Rochester.	Fulton.	775	7	53.4		79	6	29	24	29	2.13		1.01	0	6	21	2	7		G. P. Keith.
Rockville.	Parke.	722	26	56.8	+ 2.2	88	6	9	24	41	2.87	- 0.10	0.79	0	6	14	10	7	s.	C. A. Lee.
Rome.	Perry.	370	9	59.6		90	6†	30	24	43	2.75		1.50	0	6	20	6	5	sw.	Adam Anspach.
Salamonia.	Jay.	950	7	53.6		82	6†	29	25	33	2.78		0.72	0	11	16	7	5	sw.	S. A. Armstrong.
Salem.	Washington.	717	19	56.4	+ 0.5	86	6	27	24†	46	2.04	- 0.91	0.95	0	4	19	7	5	sw.	Emmet S. Allen.
Scottsburg.	Scott.	570	18	57.0	0.0	86	6†	30	25	45	1.85	- 0.70	0.80	0	3	16	11	4	sw.	Frank H. Park.
Seymour.	Jackson.	610	25	57.3	+ 1.7	87	6†	29	24†	41	1.87	- 1.11	0.82	0	4	7b	17b	5b	sw.	J. Robt. Blair.
Shelbyville.	Shelby.	768	8	56.7		85	11	27	24†	41	2.21		0.93	0	8	12	17	2	sw.	Edgar G. Hodson.
Shoals.	Martin.	523	5								0.79		0.68	0	3					Rev. G. Halleck Rowe.
Terre Haute.	Vigo.	498	22	57.8	+ 0.6	84	6	33	24	30	3.17	+ 0.91	1.98	0	7	13	11	7	s.	U. S. Weather Bureau.
Wheelersburg.	Fountain.	612	13	55.6	- 1.0	86	6†	26	24	41	2.12	- 0.37	0.98	0	8	21	5	5	s.	L. A. Culber, Jr.
Vevay.	Switzerland.	525	21	58.6	+ 1.6	85	11	33	24	35	2.00	- 0.30	1.25	0	5	11	14	6	sw.	Miss Frederica Boerner.
Vincennes.	Knox.	431	20	58.6	+ 1.3	88	5	33	24	36	1.46	- 1.61	0.80	0	5	19	3	9	s.	Garrett V. List.
Washington.	Daviess.	484	16	53.7	+ 1.6	85	6†	32	24	33	1.12	- 1.92	0.57	0	3	18	5	8	sw.	Charles C. Pegans.
Whitestown.	Boone.	529	4	53.4		82	11	30	24†	39	1.34		0.48	0	8	14	15	2	s.	Clyde O. Laughner.
Winona Lake.	Kosciusko.	865	5	54.8		85	6	29	24	37	2.06		1.05	0	8	11	16	4	w.	Rev. Albert A. Young.
Worthington.	Greene.	526	30	56.6	+ 1.1	85	9	29	24	36	1.43	- 1.25	0.83	0	4	15	13	3	sw.	D. W. Solliday.
<i>Illinois.</i>																				
Albion.	Edwards.	531	21	59.2	+ 2.3	87	9	31	24	32	1.16	- 1.13	0.55	0	5	23	5	3	s.	B. F. Michels.
Casey.	Clark.	645	9									2.09	1.24	0	4	19	5	7	sw.	William Chenoweth.
Charleston.	Coles.	720	27	56.2	+ 0.7	85	6	25 <sup>a</sup>	24	35 <sup>a</sup>	1.94	- 0.71	1.38	0	6	12	14	5	s.	Jacob B. Daisy.
Danville.	Vermilion.	604	11	56.1	- 0.1	86	5†	27	24	41	3.07	+ 0.73	1.15	0	8	21	4	6	s.	J. J. Lemon.
Equality.	Gallatin.	421	14	62.0	+ 1.9	90	5	31	24	39	1.65	- 1.81	0.62	0	6	27	0	4	sw.	Dr. L. W. Gordon.
Fairfield.	Wayne.	450	19	58.9	+ 0.7	87	5†	28	24	42	0.54	- 1.73	0.38	0	2	11	17	3	nw.	Geo. A. Tromly.
Flora.	Clay.	495	26	57.4	+ 1.7	89 <sup>a</sup>	6	28	24	43 <sup>a</sup>	2.28	- 0.16	0.99	0	6	18	7	6	sw.	W. L. Hanna.
Goleonida.	Pope.	500	34	60.6	+ 0.9	89	11	30	24	44	2.32	- 0.65	1.40	0	4	18	8	5	sw.	Dr. D. Lawrence.
Hooperston.	Vermilion.	715	10	56.3	+ 3.3	88	6	25	24	38	1.80		0.65	0	8	23	2	6	sw.	S. F. Hoskinson.
McLeansboro.	Hamilton.	462	29	58.9	+ 1.6	86	9	30	24	39	1.49	- 0.78	0.62	0	7	18	7	6	s.	Prof. W. C. Fairweather.
Metropolis.	Massac.	346	1								3.63		1.75	0	3	19	3	9		Henry H. Humma.
Montrose.	Effingham.	599	2	57.0 <sup>b</sup>		87 <sup>a</sup>	6†	23 <sup>a</sup>	24	44 <sup>a</sup>	1.97		1.07	0	5				sw.	J. C. Spitler.
Mount Carmel.	Wabash.	424	11	57.8	- 0.1	86	6†	33	24	37	1.56	- 1.01	0.90	0	6	22	7	2	sw.	Mrs. H. M. Phillips.
New Burnside.	Johnson.	613	17	59.5	+ 0.5	87	6†	26	24	42	1.77	- 1.34	1.03	0	4	23	3	5	s.	Thomas H. McCabe.
Newton.	Jasper.	484	1								2.44		1.84	0	5	19	8	4		J. M. Hicks.
Olney.	Richland.	486	25												2					John T. Ratcliff.
Palestine.	Crawford.	500	30	59.4	+ 3.8	87	5†	31	24	37	1.62	- 0.95	0.59	0	6	21	4	6	s.	Duane Shaw.
Paris.	Edgar.	600	19	54.4	- 0.2	83	9	29	14†	39	1.01	- 1.11	0.38	0	5	15	16	0	sw.	H. P. Twymann.
Philo.	Champaign.	700	28	54.3	+ 1.2	87	5	23	24	41	1.90	- 0.29	0.78	0	6	21	3	7	s.	H. A. Burr.
Rautou.	do.	763	21	56.6	+ 2.1	88	5	28	24	42	2.81	+ 0.90	0.74	0	7	21	2	8	sw.	William Breiner.
Rileyville.	Saline.	400	15								1.92	+ 0.08	0.65	0	6					W. H. Thornberry.
Shawneetown.	Gallatin.	307	2								2.16		0.73	0	7	22	3	6	sw.	Mrs. Mary O. Spivey.
Tuscola.	Douglas.	644	19								1.27	- 0.92	0.63	0	7	22	3	6	sw.	Joseph O'Neal.
Urbana.	Champaign.	725	10	56.1	+ 2.5	85	5†	28	24	36	2.95	+ 1.19	1.01	0	9	13	12	6	s.	Prof. J. G. Mosier.
<i>Kentucky.</i>																				
Alpha.	Clinton.	18	61.2	+ 2.1	85	9	32	25	35	1.10	- 1.40	1.10	0	1	20	3	8	w.	W. W. Hicks.	
Anchorage.	Jefferson.	700	11	57.4	+ 1.5	87	11	27	25	41	1.89	- 0.72	0.86	0	5	25	2	4	sw.	C. E. Barrett.
Bardstown.	Nelson.	637	15	61.4	+ 2.2	89	6†	28	25	45	1.32	- 0.49	0.60	0	5	20	6	6	se.	T. S. Talbott.
Beattyville.	Lee.	650	8	58.8		90	9	29	25	49	1.32	- 1.50	0.96	0	4	12	7	12	e.	G. W. Cann.
Beaver Dam.	Ohio.	441	9	59.9	+ 2.4	89	9	30	24†	45	1.95	- 0.20	0.80	0	6	16	7	8	s.	W. T. Austin.
Berea.	Madison.	1,070	11	59.3	+ 1.2	87	10	28	25	45	1.62	- 0.02	0.70	0	3	21	7	3	sw.	C. F. Rumold.
Blandville.	Ballard.	445	31	62.0	+ 3.9	86	6	30	23†	31	4.40	+ 1.67	2.41	0	3	16	11	4	sw.	E. W. Horr.
Bowling Green.	Warren.	500	23	60.6	+ 1.7	90	9	31	24	46	1.32	- 0.57	0.79	0	4	20	3	8	s.	Mrs. L. G. Causey.
Burnside.	Pulaski.	773	21								1.44	- 0.86	1.24	0	2					G. M. Estes.
Calhoun.	McLean.	397	9	61.6	+ 2.0	90	5†	32	25	42	2.68	- 0.54	1.40	0	5	12	15	4	se.	W. A. Taylor.
Catlettsburg.	Boyd.	544	23								1.24	- 1.21	0.88	0	4					Mrs. Mertie M. Bruns.
Earlington.	Hopkins.	370	22	60.8	+ 1.8	92	5†	33	17	47	2.57	+ 0.33	1.05	0	4	18	6	7	n.	Miss Lee Ray.
Edmonton.	Metcalfe.	600	21								0.54	- 1.55	0.32	0	3					Mrs. Katie Payne.
Eubank.	Pulaski.	1,177	18	56.94	+ 0.3	84 <sup>a</sup>	9	25 <sup>a</sup>	25 <sup>a</sup>	43 <sup>a</sup>	0.59	- 1.53	0.47	0	2	14 <sup>a</sup>	5 <sup>a</sup>	8 <sup>a</sup>	se.</	

TABLE 1.—*Climatological data for October, 1912. District No. 8—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.		
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeted.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Numb. of cloudy days.			
<b>Tennessee.</b>																				
Ashwood.	Maury.	725	33	62.4	+ 2.7	89	9	31	22	44	1.20	- 1.42	0.80	0	3	9	15	7	s.	
Benton.	Polk.	880	27	61.8	+ 2.5	89	11	32	24	42	1.95	- 0.63	1.08	0	5	18	8	5	n.	
Birds Bridge.	Greene.	6	15	.....	.....	.....	.....	.....	.....	.....	1.09	- 0.50	0	0	5	20	3	3	e.	
Bluff City.	Sullivan.	.....	.....	.....	.....	.....	.....	.....	.....	.....	1.98	- 0.12	0.51	0	5	6	13	12	w.	
Byrdstown.	Pickett.	1,028	19	61.0	+ 2.6	86	9	30	24	36	1.47	- 1.06	0.67	0	3	9	16	6	s.	
Carthage.	Smith.	500	28	62.6	+ 3.3	91	9	32	24	42	2.00	- 0.34	1.05	0	4	16	0	15	ne.	
Cedar Hill.	Robertson.	625	12	61.4	+ 0.8	90	9†	32	24	39	2.76	+ 0.74	1.46	0	5	23	4	4	s.	
Celina.	Clay.	494	9	.....	.....	.....	.....	.....	.....	.....	1.02	- 0.63	0	0	3	4	2	25	n.	
Charleston.	Bradley.	709	15	.....	.....	.....	.....	.....	.....	.....	3.78	+ 1.40	1.82	0	5	15	3	13	n.	
Chattanooga.	Hamilton.	808	33	63.0	+ 2.2	85	7	40	28	33	1.98	- 0.88	1.15	0	7	13	11	7	n.	
Clarksville.	Montgomery.	500	49	59.9	+ 2.1	90	9	30	24	37	2.09	- 0.24	1.25	0	4	21	6	4	s.	
Clinton.	Anderson.	800	24	.....	.....	.....	.....	.....	.....	.....	0.69	- 1.55	0.42	0	3	15	8	8	n.	
Crossville.	Cumberland.	1,895	58.4	.....	.....	83	9†	29	24	40	1.83	- 0.51	0.51	0	3	23	2	6	.....	
Dandridge.	Jefferson.	8	.....	.....	.....	.....	.....	.....	.....	.....	1.84	- 0.70	0	0	5	13	5	13	w.	
Decatur.	Meigs.	850	16	60.9	+ 1.4	89	10	30	24	41	1.21	- 1.71	0.53	0	7	19	7	5	sw.	
Dickson.	Dickson.	800	16	60.9	+ 0.9	89	9	31	24	43	3.10	+ 0.99	1.33	0	4	20	7	4	s.	
Dover.	Stewart.	500	17	62.7	+ 2.7	92	9†	31	25	46	1.70	- 0.95	1.30	0	3	23	6	2	s.	
Dunlap.	Sequatchie.	726	3	62.0	.....	91	10	31	24	43	1.72	- 1.23	0	0	5	15	10	6	.....	
Elizabethhton.	Carter.	1,575	22	.....	.....	.....	.....	.....	.....	.....	1.78	- 0.31	0.52	0	6	20	3	3	e.	
Erasmus.	Cumberland.	1,850	15	60.6	+ 1.2	85	9†	26	26	44	0.89	- 2.55	0.56	0	4	18	6	7	se.	
Florence.	Rutherford.	560	30	61.4	+ 2.1	88	9†	34	24	39	0.97	- 1.37	0.58	0	4	24	4	3	s.	
Hall Hill.	Williamson.	648	22	59.6	+ 0.8	84	10	32	26	36	1.22	- 1.07	0.62	0	3	21	4	6	.....	
Harriman.	.....	10	.....	.....	.....	.....	.....	.....	.....	.....	0.90	- 0.57	0	0	3	20	3	8	.....	
Hohenwald.	Roane.	841	17	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Iron City.	Lewis.	983	26	61.2	+ 3.5	89	9	30	24	41	1.62	- 0.65	0.79	0	5	18	10	3	s.	
Jefferson City.	Lawrence.	600	15	60.6	+ 0.5	88	9	30	24	43	1.98	- 0.44	0.78	0	4	12	16	3	s.	
Johnson City.	Jefferson.	2	.....	.....	.....	.....	.....	.....	.....	.....	2.11	- 1.34	0	0	4	.....	.....	.....	.....	
Johnsonville.	Washington.	1,620	1	58.5	+ 2.1	85	9	31	25	39	1.49	- 0.92	0.52	0	5	27	2	2	nw.	
Kingston.	Humphreys.	364	16	60.9	+ 0.9	90	9	31	24	42	2.77	+ 0.45	1.90	0	4	16	10	5	s.	
Knoxville.	Roane.	21	.....	.....	.....	.....	.....	.....	.....	.....	0.71	- 1.68	0.43	0	3	23	2	6	.....	
Lebanon.	Knox.	977	41	61.0	+ 2.9	85	10	35	24	33	1.30	- 1.31	0.91	0	5	16	6	9	ne.	
Lewisburg.	Wilson.	523	3	62.6	.....	90	9	32	24	41	2.00	- 1.21	0	0	5	14	8	9	s.	
Loudon.	Marshall.	727	17	61.5	+ 1.6	90	10	29	24	45	0.78	- 2.11	0.41	0	3	17	8	6	se.	
Lynnyville.	London.	816	9	.....	.....	.....	.....	.....	.....	.....	0.92	- 1.02	0.26	0	5	17	3	11	e.	
McGhee.	Giles.	770	24	61.6	+ 2.3	86	9†	33	25	37	1.63	- 0.89	1.12	0	2	19	10	2	n.	
McMinnville.	Monroe.	8	.....	.....	.....	.....	.....	.....	.....	.....	2.01	- 1.20	0	0	4	23	0	8	s.	
Maryville.	Warren.	1,011	28	62.8	+ 4.5	91	9†	30	25	44	0.72	- 1.96	0.42	0	4	23	2	6	s.	
Mountain City.	Blount.	1,050	16	60.4	+ 0.2	83	11	33	24	34	1.91	- 0.48	1.02	0	2	18	5	8	e.	
Nashville.	Johnson.	2,486	15	55.2	+ 2.4	82	11	25	27	51	1.33	- 1.59	0.50	0	4	22	3	6	.....	
Newport.	Davidson.	654	41	62.2	+ 1.9	88	9	37	25	33	2.45	- 0.03	1.16	0	5	16	10	5	ne.	
New River.	Cooke.	1,280	22	60.2	+ 3.6	80	9†	32	25	33*	1.45	- 0.57	0.50	0	6	15	3	13	w.	
Palmetto.	Scott.	1,215	5	.....	.....	.....	.....	.....	.....	.....	0.96	- 0.51	0	0	3	24	4	3	.....	
Perryville.	Bedford.	776	19	62.2	+ 0.7	89	9†	31	25	41	0.82	- 1.79	0.52	0	3	16	6	9	sw.	
Pinewood.	Decatur.	387	15	61.8	+ 1.8	88	9†	32	24	42	2.65	- 0.05	2.01	0	0	3	22	3	6	.....
Hickman.	Hawkins.	5	.....	.....	.....	.....	.....	.....	.....	.....	2.01	- 1.43	0.92	0	5	22	5	4	e.	
Rugby.	Morgan.	1,410	24	57.2	+ 2.6	87	9†	25	24	50	1.16	- 1.13	0.42	0	4	17	5	9	se.	
Savannah.	Hardin.	422	28	63.4	+ 3.4	90	9	33	24	43	1.85	- 0.40	1.17	0	4	21	7	3	e.	
Sevierville.	Sevier.	6	60.8	.....	85	9	31	25	37	1.70	- 0.77	0.77	0	5	7	11	13	sw.		
Sewanee.	Franklin.	2,006	16	61.4	+ 2.8	82	12	33	23	28	1.85	- 1.29	0.96	0	2	9	9	13	s.	
Sparta.	White.	920	6	60.6	.....	87	9	31	25	41	0.74	- 0.74	0	0	1	17	8	6	w.	
Springville.	Henry.	377	9	60.5	+ 1.7	90	9	28	24	45	2.32	- 0.25	1.69	0	5	25	3	3	s.	
Tazewell.	Claiborne.	1,350	15	57.6	.....	86	10	25	25	46	0.72	- 1.89	0.30	0	4	18	6	7	nw.	
Tullahoma.	Coffee.	1,075	24	60.4	+ 2.5	86	10	31	24	37	1.67	- 1.08	0.71	0	5	16	10	5	s.	
Walling.	White.	909	9	.....	.....	.....	.....	.....	.....	.....	0.65	- 0.50	0.50	0	3	17	5	9	sw.	
Waynesboro.	Wayne.	753	26	60.4	+ 2.0	88	9	28	24	42	0.99	- 1.07	0.58	0	4	9	17	5	n.	
Wildersville.	Henderson.	400	15	.....	.....	89	9	.....	.....	.....	3.26	+ 0.38	1.61	0	3	18	9	4	n.	
Worsham.	Summer.	550	11	.....	.....	.....	.....	.....	.....	.....	1.45	- 0.97	0.97	0	3	11	9	9	w.	
Yukon.	Lincoln.	850	15	60.7	- 0.6	84	9†	34	24	34	1.84	- 0.93	0.86	0	5	15	6	10	se.	
<b>Georgia.</b>																				
Diamond.	Gilmer.	2,020	20	60.6	+ 3.5	83*	8†	33*	24	37	2.97	- 0.18	2.60	0	3	20	6	5	.....	
<b>North Carolina.</b>																				
Andrews.	Cherokee.	1,800	2	60.3	.....	87	10†	29	25	41	3.28	- 1.13	0	8	22	5	4	sw.		
Asheville.	Buncombe.	2,255	33	57.6	+ 2.3	82	10	33	25	38	1.54	- 1.40	0.87	0	7	18	5	8	nw.	
Banners Elk.	Avery.	3,750	4	51.8	.....	76	9†	23	27	42	1.08	- 0.90	0	2	25	0	6	w.		
Blantyre.	Transylvania.	1,900	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....		
Blowing Rock.	Watson.	4,090	3	52.2	.....	76	10†	25	27	41	1.95	- 1.00	0	2	.....	.....	.....	.....	.....	
Brevard.	Transylvania.	2,230	11	57.8	+ 2.3	85	10†	25	25	45	2.15	- 1.41	1.15	0	4	20	11	0	n.	
Bryson City.	Swain.	2,000	24	.....	.....	.....	.....	.....	.....	.....	2.10	- 0.58	0.99	0	3	.....	.....	.....	.....	
Cullowhee.	Jackson.	2,100	2	.....	.....	83	10	31	29	42	1.75	- 2.49	1.00	0	3	22	3	6	nw.	
Hendersonville.	Henderson.	2,167	15	57.7	+ 1.8	83														

TABLE 1.—*Climatological data for October, 1912. District No. 3—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.	
<i>Virginia.</i>																			
Blacksburg.....	Montgomery.....	2,170	21	54.6	+ 2.2	81	10	28	27	43	1.73	- 0.96	.63	0	5	18	6	w.	Agricultural Exper. Station.
Burkes Garden.....	Tazewell.....	3,250	17	49.7	+ 0.2	76	11	18	27	44	2.04	- 1.05	.72	T.	5	17	4	w.	C. H. Grever.
Elk Knob.....	Lee.....	3,243	9	59.2	.....	78	9†	35	25	22	0.88	.....	.36	0	7	16	8	nw.	Henry Nicoll.
Ivanhoe     .....	Wythe.....	2,028	16	53.0	.....	76	10	32	27†	34	1.40	.....	.60	0	6	24	2	w.	Miss Alice G. Jewett.
Lebanon.....	Russell.....	2,131	2	.....	.....	87	11	.....	.....	.....	0.80	.....	.30	0	4	25	0	.....	E. M. Hunter.
Max Meadows.....	Wythe.....	2,028	16	55.0	+ 1.6	82	11	27	27	41	1.47	- 1.62	.57	0	4	16	7	nw.	James M. Graham.
Mendota     .....	Washington.....	1,350	3	.....	.....	.....	.....	.....	.....	.....	2.07	.....	.95	0	6	13	4	e.	Frank M. Barker.
Radford     .....	Montgomery.....	1,773	3	.....	.....	.....	.....	.....	.....	.....	1.78	.....	.90	0	5	5	4	.....	Arthur Roberts.
Speers Ferry     .....	Scott.....	1,221	16	.....	.....	.....	.....	.....	.....	.....	2.19	- 0.05	1.00	0	4	19	4	w.	Miss L. E. Venable.
Wytheville.....	Wythe.....	2,293	19	55.1	+ 1.5	80	11	30	27	40	1.45	- 1.69	.80	0	6	18	6	nw.	U. S. Weather Bureau.

\* b, o, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

\*\* Temperature extremes are from observed readings of the dry bulb; means are computed from observed readings.

† Also on other dates.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 2.—*Daily precipitation for October, 1912. District No. 3, Ohio Valley.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 8—Continued.*

Stations.	Watershed.	Day of month.																																
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total	
<i>West Virginia—Con.</i>																																		
Sutton.....	G. Kanawha																																	1.33
Terra Alta.....	Monong'h'a.																																2.50	
Union.....	G. Kanawha																																1.64	
Valley Fork.....	do.....																																2.15	
Webster Springs.....																																	2.03	
Wellsburg.....	Ohio.....																																2.03	
Weston    .....	Monong'h'a.																																1.71	
Wheeling    .....	Ohio.....																																0.80	
Williamson    .....	Big Sandy.....																																	
<i>Ohio.</i>																																		
Amesville.....	Ohio.....																																2.01	
Bangorville.....	Muskingum.....																																2.28	
Bellefontaine.....	Great Miami.....																																1.97	
Bladensburg.....	Muskingum.....																																1.84	
Cadiz.....	Ohio.....																																2.30	
Cambridge.....	Muskingum.....																																3.09	
Camp Dennison.....	Ohio.....																																2.22	
Canal Dover.....	Muskingum.....																																2.53	
Canton.....	do.....																																3.34	
Cardington.....	Scioto.....																																4.08	
Chillicothe    .....	do.....																																1.26	
Cincinnati.....	Ohio.....																																2.12	
Circleville.....	Scioto.....																																1.80	
Clarington.....	Ohio.....																																2.30	
Columbus.....	Scioto.....																																1.71	
Coshocton    .....	Muskingum.....																																3.66	
Dayton (1).....	Great Miami.....																																1.23	
Dayton (2).....	do.....																																2.25	
Delaware.....	Scioto.....																																2.47	
Demos.....	Ohio.....																																1.42	
Dennison.....	Muskingum.....																																2.47	
Frankfort.....	Scioto.....																																1.65	
Gallipolis    .....	Ohio.....																																1.42	
Garrettsville.....	Mahoning.....																																0.99	
Granville.....	Muskingum.....																																2.27	
Gratiot.....	do.....																																1.85	
Greer.....	Ohio.....																																1.95	
Green Hill.....	Muskingum.....																																2.00	
Greenville.....	Great Miami.....																																1.61	
Hamilton    .....	do.....																																2.00	
Haydenville.....	Ohio.....																																1.63	
Hillsboro.....	Scioto.....																																1.70	
Ironton.....	Ohio.....																																0.99	
Kenton.....	Scioto.....																																2.27	
Killbuck.....	Muskingum.....																																2.29	
Kings Mills    .....	Little Miami.....																																1.76	
Lancaster.....	Ohio.....																																1.63	
McConnellsburg.....	Muskingum.....																																2.54	
Marietta.....	Ohio.....																																1.85	
Marion.....	Scioto.....																																3.18	
Millfordton.....	Muskingum.....																																1.84	
Milligan.....	do.....																																3.11	
Millport.....	Ohio.....																																2.05	
Nelle.....	Muskingum.....																																2.55	
New Alexandria.....	Ohio.....																																2.07	
New Berlin.....	Muskingum.....																																3.30	
New Waterford.....	Ohio.....																																2.55	
O. S. University.....	Scioto.....																																2.07	
Oregonia    .....	Little Miami.....																																1.92	
Pataskala.....	Muskingum.....																																1.66	
Peebles.....	Ohio.....																																2.49	
Philo (1).....	Muskingum.....																																3.06	
Piqua    .....	Great Miami.....																																2.01	
Plattsburg    .....	do.....																																1.9	
Portsmouth    .....	Ohio.....																																1.75	
Prospects    .....	Scioto.....																																2.07	
Shenandoah.....	Muskingum.....																																2.07	
Sidney.....	Great Miami.....																																1.40	
Somerset    .....	Muskingum.....																																1.90	
Springfield.....	Great Miami.....																																2.34	
Summerfield.....	Ohio.....																																1.50	
Syracuse.....	do.....																																1.37	
Thurman.....																																	2.37	
Urbana.....	Great Miami.....																																	

TABLE 2.—*Daily precipitation for October, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 3—Continued.*

TABLE 2.—*Daily precipitation for October, 1912. District No. 3—Continued.*

Stations.	Watershed.	Day of month.																													Total.			
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
<i>North Carolina—Con.</i>																																		
Blowing Rock.....	Great Kanawha.....																																	1.95
Brevard.....	Tennessee.....																																2.15	
Bryson City   .....	do.....	T.																															2.10	
Cullowhee.....	do.....																																1.75	
Hendersonville.....	do.....																																1.75	
Highlands.....	do.....																																1.35	
Hot Springs.....	do.....																																1.35	
Jefferson.....	Great Kanawha.....																																1.16	
Marshall.....	Tennessee.....																																1.52	
Murphy   .....	do.....	.19																															2.93	
Rock House.....	Savannah.....		.20																														.07	
Transon.....	Great Kanawha.....																																1.56	
Waynesville   .....	Tennessee.....		.02																														1.91	
<i>Virginia.</i>																																		
Blacksburg.....	Kanawha.....																																1.73	
Burkes Garden.....	Tennessee.....																																2.04	
Elk Knob.....	do.....																																0.88	
Ivanhoe   .....	Kanawha.....																																1.40	
Lebanon.....	Tennessee.....																																0.80	
Max Meadows.....	Kanawha.....																																1.47	
Mendota   .....	Tennessee.....																																2.07	
Radford   .....	Kanawha.....																																1.78	
Speers Ferry   .....	Tennessee.....																																2.19	
Wytheville.....	Kanawha.....																																1.45	

\* Precipitation included in that of the next measurement.

† Separate dates of falls not recorded.

|| Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow.

TABLE 3.—*Maximum and minimum temperatures at selected stations for October, 1912. District No. 3, Ohio Valley.*

Date.	Pennsylvania.				West Virginia.										Ohio.													
	Greenville.		Pittsburgh.		Charleston.		Elkhorn.		Elkins.		Glenville.		Huntington.		Morgantown.		Parkersburg.		Wheeling.		Canton.		Cincinnati.		Columbus.		Dayton.	
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	62	42	60	45	64	40	60	38	59	31	70	37	63	51	61	37	64	35	66	34	64	38	67	41	64	42	66	40
2....	70	31	67	42	74	40	70	34	70	33	76	38	67	40	69	38	69	38	73	36	71	35	74	42	70	43	68	41
3....	71	34	72	46	74	48	69	42	72	36	80	40	71	41	73	40	74	41	75	37	74	38	74	45	72	46	71	47
4....	75	50	74	56	79	56	72	46	75	46	85	49	76	45	77	53	79	57	80	43	78	50	79	57	75	55	76	54
5....	79	36	76	50	79	56	75	48	77	47	84	53	77	55	84	50	79	51	77	50	79	42	82	54	79	53	81	50
6....	81	36	77	48	78	57	75	47	79	44	80	50	76	54	80	45	81	48	80	49	83	42	82	53	81	55	81	54
7....	66	43	70	51	78	55	75	49	76	40	83	50	76	53	74	42	74	51	74	49	67	43	63	52	66	47	65	48
8....	62	34	58	46	73	45	74	43	66	37	83	50	65	44	84	40	63	42	62	42	62	37	68	45	60	41	63	41
9....	73	48	80	53	82	53	77	47	81	46	86	46	82	47	80	47	85	53	84	43	81	51	84	59	82	53	82	56
10....	74	61	81	64	84	62	80	50	81	57	91	50	81	55	80	56	84	66	84	51	80	59	82	66	80	65	78	65
11....	83	53	83	62	83	60	81	55	83	51	91	54	81	57	70	62	87	58	87	60	85	56	87	62	85	62	83	64
12....	75	47	75	52	80	62	78	56	78	54	80	55	74	59	68	55	75	52	76	59	72	47	73	51	69	47	73	48
13....	65	33	59	44	70	48	75	41	57	48	68	47	62	46	61	43	64	46	65	40	61	36	63	46	61	41	60	41
14....	61	37	63	47	67	48	69	45	61	36	71	47	64	50	60	42	66	44	69	40	66	33	68	46	65	43	65	39
15....	59	32	60	41	69	45	62	45	63	32	72	34	68	40	66	43	67	35	60	36	70	46	62	42	66	43	64	43
16....	59	27	55	35	63	38	66	39	64	31	70	32	61	33	59	30	62	36	62	33	61	28	65	41	61	37	64	36
17....	63	26	63	39	70	40	65	38	65	29	72	31	68	35	69	34	76	34	68	32	68	30	69	40	69	39	69	41
18....	70	38	65	55	75	57	73	50	67	44	68	47	72	40	66	55	67	56	64	55	67	52	66	59	63	58	64	57
19....	62	43	64	47	74	74	62	68	57	66	40	70	48	68	58	76	57	65	43	69	59	61	39	65	49	63	45	63
20....	62	33	60	38	69	33	66	38	68	33	74	51	65	39	64	35	64	37	60	31	66	43	61	39	62	38	62	33
21....	71	36	71	47	72	49	68	34	74	34	78	34	72	44	77	51	77	47	79	39	75	40	77	50	75	46	75	48
22....	62	50	69	53	74	60	68	52	72	56	80	45	73	48	76	57	70	57	70	59	65	63	77	67	66	49	76	46
23....	60	40	63	40	73	44	66	39	62	36	64	34	55	48	63	40	57	40	48	47	58	38	53	45	49	41	49	43
24....	46	40	42	39	51	41	41	35	41	36	51	40	55	45	43	38	49	41	46	41	42	38	57	51	38	54	34	
25....	49	42	49	40	60	36	56	30	54	38	64	40	59	38	48	40	59	39	53	42	58	38	64	39	60	35	62	35
26....	56	36	55	40	60	36	58	30	56	29	66	30	61	35	53	34	60	34	61	32	58	31	63	43	57	38	60	38
27....	68	26	58	34	69	36	68	30	62	27	70	30	60	35	62	29	63	32	60	29	66	38	62	36	63	35	63	35
28....	69	33	68	45	69	35	65	30	67	28	78	30	68	35	65	35	70	36	70	32	70	36	74	42	70	42	70	45
29....	71	36	72	50	73	38	71	37	73	31	80	32	71	36	72	33	74	41	76	33	72	46	74	49	72	49	72	53
30....	61	42	63	43	72	44	71	45	66	40	71	40	64	40	68	44	64	45	66	41	62	35	66	48	64	42	61	44
31....	55	31	59	36	75	47	71	44	71	38	70	38	73	47	68	45	74	45	68	35	55	32	68	48	64	41	65	44
Mns..	65.8	38.6	65.5	46.2	72.2	47.6	69.3	42.4	67.9	39.0	75.0	42.2	68.6	45.1	68.3	41.1	69.7	44.9	69.4	41.2	66.9	39.9	70.3	47.9	67.0	45.5	67.7	45.6

Date.	Ohio.				Indiana.								Illinois.				Kentucky.				Beattyville.				Bowling Green.		Earlington.		Lexington.	
	Marion.		Waverly.		Butlerville.		Evansville.		Indianapolis.		Kokomo.		Rockville.		Worthington.		Philo.		Alpha.		Beattyville.		Bowling Green.		Earlington.		Lexington.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1....	66	38	67	33	68	33	67	40	65	40	66	29	71	31	67	36	69	28	62	38	72	36	80	35	75	33	65	41		
2....	72	39	71	35	74	36	73	44	70	45	71	36	75	34	71	37	72	34	70	39	79	36	82	41	82	35	72	44		
3....	72	42	76	38	76	45	77	56	71	49	70	39	76	43	75	41	78	41	73	57	80	40	79	45	81	41	72	50		
4....	78	50	80	48	80	50	83	58	77	54	79	39	81	43	78	49	76	42	79	54	87	44	85	49	90	51	79	56		
5....	83	43	83	48	85	53	86	60	81	56	82	44	87	48	83	51	87	47	80	54	84	51	86	53	92	52	81	58		
6....	83	49	83	48	85	50	81	59	83	48	88	52	84	52	86	49	78	51	88	52	89	47	92	52	82	58	82	58		
7....	67	55	79	49	73	50	69	53	65	48	74	49	52	47	74	50	70	43	80	53	86	50	89	45	78	55	73	50		
8....	60	34	66	37	70	44	76	41	61	44	57	34	61	39	68	43	64	37	71	48	78	41	83	45	84	42	72	44		
9....	83	50</td																												

TABLE 3.—*Maximum and minimum temperatures at selected stations for October, 1912. District No. 8—Continued.*

Date.	Kentucky.						Tennessee.										Decatur, Ala. §§		Asheville, N. C.		Virginia.										
	Louisville.	Maysville. §§	Middle- boro.	Chatta- nooga.	Johnson City. §§	Knoxville.	Nashville.	Palmetto.	Sparta.	Waynes- boro.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.							
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.							
1....	67	40	71	33	67	42	68	47	62	40	66	44	68	41	69	38	69	41	68	34	70	42	65	45	62	36	62	39			
2....	75	44	77	33	74	40	74	49	76	37	73	44	77	39	78	39	77	37	76	44	68	32	69	33	68	32	69	33			
3....	76	49	78	38	75	44	75	52	77	40	76	47	78	52	79	52	79	44	80	50	76	46	71	38	73	34	72	37			
4....	82	58	85	42	78	55	79	61	82	45	78	58	82	56	83	54	82	53	83	52	83	59	76	54	78	46	75	48			
5....	84	58	87	50	80	54	81	58	81	43	81	56	84	59	86	60	83	57	85	50	84	55	76	49	78	45	75	48			
6....	85	57	87	49	80	54	83	58	83	48	81	55	83	57	86	53	83	49	84	52	83	64	77	47	80	43	77	45			
7....	71	53	75	50	83	53	55	58	82	46	84	53	82	57	81	52	84	51	86	50	86	53	76	47	78	42	75	50			
8....	75	47	73	39	77	45	82	59	78	49	80	55	82	53	88	49	85	46	86	50	87	55	80	56	70	43	73	44			
9....	86	62	88	39	82	48	82	60	85	51	85	56	88	60	89	62	87	52	88	65	89	57	80	49	79	39	79	43			
10....	83	67	88	55	84	56	83	68	84	54	85	61	86	62	89	62	86	58	86	50	88	60	82	55	81	47	80	51			
11....	86	63	91	53	84	59	82	64	83	58	83	63	84	62	85	64	86	60	84	61	81	80	55	79	50	80	53	80	53		
12....	74	52	73	54	80	64	84	63	82	56	81	65	74	57	74	59	74	59	74	61	83	63	79	55	79	52	77	54	77	54	
13....	62	49	72	40	68	54	54	66	59	61	61	65	55	69	55	63	54	63	54	66	51	64	55	70	55	66	53	61	49	61	49
14....	69	49	73	42	61	53	59	52	57	50	57	51	63	53	68	51	65	51	69	50	65	55	58	51	53	49	53	47	53	47	
15....	71	43	75	33	69	47	70	52	69	50	69	47	73	44	74	40	72	40	73	38	73	50	64	46	63	44	63	45	63	45	
16....	68	45	70	33	70	42	72	50	72	39	70	46	74	47	77	41	75	40	76	39	78	44	67	38	63	33	68	35	68	35	
17....	65	47	73	33	63	41	72	55	74	42	66	46	72	54	74	57	73	46	75	57	79	45	68	38	67	32	67	34	67	34	
18....	67	59	67	35	71	53	70	61	74	45	71	56	70	62	71	64	71	55	70	62	74	57	66	52	71	49	69	49	69	49	
19....	65	49	68	56	69	59	72	57	72	54	70	56	67	51	72	52	69	56	70	49	79	63	69	58	70	57	69	49	69	49	
20....	68	42	70	56	75	39	74	52	75	45	75	50	74	47	80	39	80	40	77	38	77	45	67	52	72	35	67	39	67	39	
21....	76	53	84	39	76	49	71	59	70	48	76	56	72	64	72	64	76	60	68	61	70	49	58	51	59	37	58	49	59	37	
22....	68	47	74	42	74	59	66	49	74	52	65	44	67	52	78	56	68	60	62	68	53	62	48	61	50	62	48	61	50	62	48
23....	56	44	54	45	69	45	58	42	54	47	55	40	59	38	60	35	67	39	58	34	58	39	40	38	59	39	59	39	59	39	
24....	58	36	60	41	59	33	62	42	56	41	59	35	58	38	61	32	58	33	61	28	61	38	52	38	45	36	47	37	45	37	
25....	64	39	65	30	62	32	61	44	60	31	62	35	60	37	59	31	61	31	58	29	58	36	60	39	58	38	60	38	60	37	
26....	65	43	67	30	69	31	70	47	66	31	67	40	69	40	71	35	67	34	70	28	59	38	63	42	62	39	61	38	61	38	
27....	69	49	72	32	70	32	69	44	68	32	67	38	69	40	70	34	69	31	71	34	68	39	67	32	69	30	67	28	69	30	
28....	74	42	78	32	73	32	73	40	67	34	71	38	73	40	76	35	74	33	74	33	74	37	70	34	72	29	71	31	71	31	
29....	75	53	78	32	73	34	73	43	73	34	72	41	74	53	74	51	74	38	75	45	75	38	74	36	74	32	70	33	70	33	
30....	66	51	69	40	76	37	75	47	75	36	75	44	77	54	79	50	77	41	78	48	78	47	71	39	70	37	68	40	68	40	
31....	70	51	79	44	77	45	75	50	76	42	77	48	76	52	78	51	77	45	77	50	78	48	69	42	37	39	68	40	68	40	
Mns.	71.6	49.4	74.9	41.0	73.2	46.2	73.1	53.0	72.5	44.5	72.5	49.4	73.8	50.7	75.4	48.9	74.9	46.2	74.6	46.3	75.0	49.8	69.3	46.0	68.5	40.7	67.8	42.4			

\*, b, c, etc., indicate respectively 1, 2, 3, etc., days missing from the record.

§ § Instruments are read in the morning; the maximum temperature then read is charged to the preceding day, on which it almost always occurs.